



IAP15 Rec'd PCT/PTO 04 AUG 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/019,386

Applicant: Bell et al.

Filed: December 28, 2001

TC/AU: 1635

Examiner: Peter Paras, Jr.

Docket No.: 221042 (Client Reference No. E-220-1998/0-US-07)

Customer No.: 45733

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION OF REPLACEMENT OR AMENDED SEQUENCE LISTING

Dear Sir:

In response to the Notification to Comply with Requirements for Patent Application Containing Nucleotide and/or Amino Acids Sequence Disclosures dated June 30, 2006, a replacement or amended sequence listing is being submitted herewith. The sequence listing is in the form of both a paper copy and two computer readable copies on a computer diskette. The undersigned hereby verifies that the content of the paper copy and the two computer readable copies, as concurrently being submitted, are the same. No new matter is being added by way of the paper copy or computer-readable copy of this replacement or amended sequence listing.

Four new sequence identification numbers (SEQ ID NOs: 101-104) have been added to the sequence listing, which correspond to the four amino acid sequences set forth in Fig. 4C. The Notification indicates that a sequence identification number should be added for Fig. 4D; however "CTCF" in Figure 4D does NOT refer to an amino acid sequence. CTCF refers to a sequence-specific DNA binding protein.

Additionally, the "comments" portion of SEQ ID NOs: 59 and 84-100 of the sequence listing have been amended to correctly characterize the sequences.

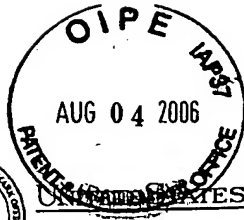
In re Appln. of Bell et al.
Application No. 10/019,386

Respectfully submitted,

A handwritten signature in cursive script, reading "Rachel J. Mejdrich". The signature is written in black ink and is positioned above a horizontal line.

Rachel J. Mejdrich, Reg. No. 53,477
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Date: July 31, 2006



UNITED STATES PATENT AND TRADEMARK OFFICE

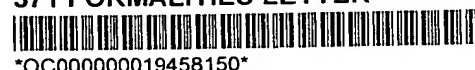
To: MMJ cc: Page 1 of 2LVM 221042, NHUNITED STATES DEPARTMENT OF COMMERCE
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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/019,386	Adam C. Bell	2026-4297US

INTERNATIONAL APPLICATION NO.	
PCT/US00/10509	
I.A. FILING DATE	PRIORITY DATE
04/19/2000	06/30/1999

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RECEIVED

MMJ JUL 05 2006

PAT/TM Due Date 7/30/06 (due)
11/30/07 FinalCONFIRMATION NO. 1384
371 FORMALITIES LETTER

OC000000019458150

JC

Date Mailed: 06/30/2006

**NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR § 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR §§ 1.821-1.825. The application must be in sequence compliance before examination on the merits.

APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR §§ 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR § 1.821(g). Extension of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR § 1.136. In no case may an applicant extend the period for response beyond the six-month statutory period. Direct the response to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

See the attachment.

Applicant Must Provide as part of the response:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951

- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

DONNA S GREENE

Telephone: (703) 308-9140 EXT 222

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/019,386	PCT/US00/10509	2026-4297US

FORM PCT/DO/EO/922 (371 Formalities Notice)



PCT 371 Routing Sheet APPLICATION

IFW DocCode - SEQREQ

Index using Current Date

10/019,386

**TO BE DELIVERED TO:
Tech Center Scanning**

Sequence Rule Compliance Review Item

X	CRF, paper copy of sequence listing, and statement that both are same missing
	CRF contains error(s) according to STIC Report
	CRF damaged or unreadable according to STIC Report
	CRF transferred from prior application is not compliant

Place an "X" in the appropriate box

PETER PARAS, JR.
PRIMARY EXAMINER

Peter Paras
S7E 1635

Comment Sheet



APPLICATION SERIAL NUMBER

10/019,386

**DOES NOT COMPLY WITH THE
SEQUENCE RULES. See reasons below.**

Comments:

Figures 4C and 4D contain sequences not found in the CRF, paper copy of sequence listing, and statement that both are same is missing.